



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 123005**

**TO: Phillip Gambel**  
**Location: 3e81 / 3c70**  
**Saturday, May 29, 2004**  
**Art Unit: 1644**  
**Phone: 272-0844**  
**Serial Number: 09 / 249011**

**From: Jan Delaval**  
**Location: Biotech-Chem Library**  
**Rem 1A51**  
**Phone: 272-2504**

**jan.delaval@uspto.gov**

### **Search Notes**

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: \_\_\_\_\_ Examiner #: \_\_\_\_\_ Date: \_\_\_\_\_  
 Art Unit: \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number: \_\_\_\_\_  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

## STAFF USE ONLY

		Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) <u>✓</u>	STN _____	
Searcher Phone #: <u>22504</u>	AA Sequence (#) <u>✓</u>	Dialog _____	
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____	
Date Searcher Picked Up: <u>5/26</u>	Bibliographic _____	Dr.Link _____	
Date Completed: <u>5/29</u>	Litigation _____	Lexis/Nexis _____	
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems <u>✓</u>	
Clerical Prep Time: <u>15</u>	Patent Family _____	WWW/Internet _____	
Online Time: <u>20</u>	Other _____	Other (specify) _____	

```
US-09-582-337-16
; Sequence 16, Application US/09582337
; Patent No. 6562618
; GENERAL INFORMATION:
; APPLICANT: Japan Tobacco, Inc.
; TITLE OF INVENTION: Monoclonal Antibody Against Connective Tissue Growth Factor
; FILE REFERENCE: JP 09582337
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: JP P1997-367699
; PRIOR FILING DATE: 1997-12-25
; PRIOR APPLICATION NUMBER: JP P1998-356183
; PRIOR FILING DATE: 1998-12-15
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 16
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-582-337-16

Query Match      81.5%; Score 555; DB 4; Length 141;
Best Local Similarity 82.4%; Pred. No. 1.2e-44;
Matches 108; Conservative 9; Mismatches 12; Indels 2; Gaps 1;

QY  4 QAVLLILLWVSGTGDIVLTQSPDSLAIVSLGERATISCKSSQSLNSTRNYLAWYQ 63
DB  4 QTVFISLLMISGAVGDIWMTQSPDSLAIVSLGERATINCKSSQSLYSSNNKNYLA 63
QY  64 QKGPQPKLLIYWASTRESGVDPFSGSGGTDTLTISSLQADVDVAVYTCQSYNL-Y 121
DB  64 QKGPQPKLLIYWASTRESGVDPFSGSGGTDTLTISSLQADVDVAVYTCQSYNPW 123
QY  122 TFGQGTVEIK 132
DB  124 TFGQGTVEIK 134

RESULT 3
US-08-812-586-46
; Sequence 46, Application US/08812586
; Patent No. 6537769
; GENERAL INFORMATION:
; APPLICANT: Martin David Tilson
; TITLE OF INVENTION: PURIFIED AND RECOMBINANT ANTIGENIC
; TITLE OF INVENTION: PROTEINS ASSOCIATED WITH ABDOMINAL AORTIC ANEURYSM (AAA)
; TITLE OF INVENTION: DISEASE, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESS: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/812,586
; FILING DATE: 07-19-97
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/53862-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 46:
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 135 amino acids
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-812-586-46

Query Match      81.3%; Score 553.5; DB 3; Length 135;
Best Local Similarity 84.6%; Pred. No. 1.6e-44;
Matches 110; Conservative 5; Mismatches 14; Indels 1; Gaps 1;

QY  4 QAVLLILLWVSGTGDIVLTQSPDSLAIVSLGERATISCKSSQSLNSTRNYLAWYQ 63
DB  4 QTVFISLLMISGAVGDIWMTQSPDSLAIVSLGERATINCKSSQSLYSSNNKNYLA 63
QY  64 QKGPQPKLLIYWASTRESGVDPFSGSGGTDTLTISSLQADVDVAVYTCQSYNL-YT 122
DB  64 QKGPQPKLLIYWASTRESGVDPFSGSGGTDTLTISSLQADVDVAVYTCQSYSTPPM 123
QY  123 FQGTKEIK 132
DB  124 FQGTKEIK 133

RESULT 4
US-09-535-832A-43
; Sequence 43, Application US/09535832A
; Patent No. 6537769
; GENERAL INFORMATION:
; APPLICANT: Tilson, Martin David
; TITLE OF INVENTION: Purified and Recombinant Antigenic Proteins Associated
; TITLE OF INVENTION: With Abdominal Aortic Aneurysm (AAA) Disease, and
; TITLE OF INVENTION: Diagnostic and Therapeutic Use Thereof
; FILE REFERENCE: 53862-A
; CURRENT FILING DATE: 2000-03-28
; CURRENT APPLICATION NUMBER: US/09/535,832A
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 43
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-535-832A-43

Query Match      81.3%; Score 553.5; DB 4; Length 135;
Best Local Similarity 84.6%; Pred. No. 1.6e-44;
Matches 110; Conservative 5; Mismatches 14; Indels 1; Gaps 1;

QY  4 QAVLLILLWVSGTGDIVLTQSPDSLAIVSLGERATISCKSSQSLNSTRNYLAWYQ 63
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DB  64 QKGPQPKLLIYWASTRESGVDPFSGSGGTDTLTISSLQADVDVAVYTCQSYSTPPM 123
QY  123 FQGTKEIK 132
DB  124 FQGTKEIK 133

RESULT 5
US-08-463-903-4
; Sequence 4, Application US/08463903
; Patent No. 6071515
; GENERAL INFORMATION:
; APPLICANT: Mezes, Peter S.
; APPLICANT: Richard, Ralph A.
; APPLICANT: Kocica, Nicholas J.
; TITLE OF INVENTION: Dimer and Multimer Forms of Single Chain Polypeptides
; FILE REFERENCE: 40224A US
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 26, 2004, 11:42:43 ; Search time 15.8202 Seconds  
(without alignments)  
430.754 Million cell updates/sec

Title: US-09-249-011B-8

Perfect score: 681

Sequence: 1 MDSQAVILLWVSGTGC.....YCTQSTNYTFGGQTKVEIK 132

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum Match 100%

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : 1: /cn2\_5/ptodata/2/iaa/5A.COMB.pdp.\*  
2: /cn2\_5/ptodata/2/iaa/5B.COMB.pdp.\*  
3: /cn2\_5/ptodata/2/iaa/5A.COMB.pdp.\*  
4: /cn2\_5/ptodata/2/iaa/5B.COMB.pdp.\*  
5: /cn2\_5/ptodata/2/iaa/5A.COMB.pdp.\*  
6: /cn2\_5/ptodata/2/iaa/5B.COMB.pdp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	592	86.9	239	1	US-08-353-400-37
2	555	81.5	141	4	US-09-582-337-16
3	553.5	81.3	135	3	US-08-812-586-46
4	553.5	81.3	135	4	US-09-535-832A-43
5	548.5	80.5	133	3	US-08-463-901-4
6	548.5	80.5	133	4	US-07-935-695-4
7	548	80.3	133	4	US-09-301-593-36
8	547.5	80.0	134	4	US-09-301-593-36
9	544.5	80.0	240	4	US-08-961-309-58
10	528.5	77.6	133	2	US-08-822-028-12
11	528.5	77.6	133	3	US-08-479-285-12
12	528.5	77.6	133	4	US-09-503-653A-12
13	526.5	77.3	133	5	PCT-US93-11611-2
14	525.5	77.2	133	4	US-09-301-593-24
15	525.5	77.2	133	4	US-09-301-593-28
16	522.5	76.7	154	3	US-08-513-968-36
17	513.5	75.4	495	3	US-08-828-741B-4
18	513.5	75.4	495	4	US-09-710-299-4
19	513.5	75.4	495	4	US-09-509-031-4
20	513.5	75.4	495	4	US-09-509-031-4
21	512.5	75.3	133	3	US-08-579-378A-2
22	512.5	75.3	133	5	PCT-US93-11612-2
23	504.5	74.1	113	4	US-09-301-593-6
24	504.5	74.1	113	4	US-09-301-593-6
25	502.5	73.8	113	4	US-08-525-539A-80
26	502.5	73.8	113	4	US-09-274-163E-16
27	502.5	73.8	155	3	US-08-828-741B-11

28	502.5	73.8	155	4	US-09-160-567-11
29	502.5	73.8	155	4	US-09-710-299-11
30	502.5	73.8	155	4	US-08-579-378A-2
31	502.5	73.8	155	4	US-08-828-741B-6
32	502.5	73.8	155	4	US-09-160-567-11
33	502.5	73.8	155	4	US-09-710-299-6
34	502.5	73.8	155	4	US-09-509-031-6
35	500.5	73.5	113	4	US-09-301-593-2
36	500.5	73.5	113	4	US-09-301-593-32
37	500.5	73.5	114	4	US-09-025-769B-17
38	498.5	73.2	113	5	PCT-US93-08435-8
39	498.5	73.2	114	4	US-09-274-163E-2
40	498.5	73.2	114	4	US-09-274-163E-6
41	498.5	73.2	274	3	US-08-961-309-58
42	498.5	73.2	274	3	US-08-961-309-58
43	497.5	73.1	275	4	US-07-935-695-6
44	497.5	73.1	114	4	US-09-274-163E-4
45	497.5	73.1	115	4	US-09-025-769B-31

## ALIGNMENTS

RESULT 1  
US-08-353-400-37  
; Sequence 37, Application US/08353400  
; Patent No. 668337  
; GENE INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 37  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA: US/08353400  
; FILING DATE: 03-DEC-1993  
; PRIORITY DATE: 03-DEC-1993  
; APPLICATION NUMBER: GB 9324819.3  
; FILING DATE: 03-DEC-1993  
; APPLICATION NUMBER: GB 9411089.7  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 239 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-353-400-37

Query Match 86.9%; Score 592; DB 1; Length 239;  
Best Local Similarity 84.8%; Pred. No. 7.8e-48;  
Matches 112; Conservative 11; Mismatches 9; Indels 0; Gaps 0;  
QY 1 MDSQAVILLWVSGTGCIVITQSPDLSVLSGERATISCKSSGLMSPTENYIA 60  
DB 1 MDSQAVILLWVSGTGCIVITQSPDLSVLSGERATISCKSSGLMSPTENYIA 60  
QY 61 YTCQKCPKPLIYVASTESGYPDPSGSGSDTFTTSSIQAEVDVYVTCQSVL 120  
DB 61 YTCQKCPKPLIYVASTESGYPDPSGSGSDTFTTSSIQAEVDVYVTCQSVL 120  
QY 121 YTFGGTKVEIK 132  
DB 121 YTFGGTKVEIK 132

RESULT 2

Db 1 MDSQAQVLLILLWVSGTCDIVLTQSPDLSAVSLGERATISCKSSQSLNSRTRENYLA 60  
QY 61 WYQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 120  
Db 61 WYQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 120  
QY 121 YTFGGTKVEIK 132  
Db 121 YTFGGTKVEIK 132

## RESULT 2

US-09-249-011A-22  
; Sequence 22, Application US/09249011A  
; Patent No. US2002017685A1  
; GENERAL INFORMATION:  
; APPLICANT: CO. MAN SUNG  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARENZO, BEATRIZ  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GERTRUIDA M.

; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 09249-011A-0070  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 22  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Mus sp.

## US-09-249-011A-22

Query Match 99.4%; Score 677; DB 9; Length 239;  
Best Local Similarity 99.4%; Pred. No. 6,6e-53;  
Matches 134; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDSQAQVLLILLWVSGTCDIVLTQSPDLSAVSLGERATISCKSSQSLNSRTRENYLA 60  
Db 1 MDSQAQVLLILLWVSGTCDIVLTQSPDLSAVSLGERATISCKSSQSLNSRTRENYLA 60  
QY 61 WYQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 120  
Db 61 WYQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 120  
QY 121 YTFGGTKVEIK 132  
Db 121 YTFGGTKVEIK 132

## RESULT 3

US-09-249-011A-4  
; Sequence 4, Application US/09249011A  
; Patent No. US20017685A1  
; GENERAL INFORMATION:  
; APPLICANT: CO. MAN SUNG  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARENZO, BEATRIZ  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GERTRUIDA M.

; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 132  
; TYPE: PRT  
; ORGANISM: Murine sp.  
; FEATURE:  
; OTHER INFORMATION: Anti-B7-2 light chain  
US-09-249-011A-4

Query Match 92.4%; Score 629; DB 9; Length 132;  
Best Local Similarity 90.9%; Pred. No. 7.1e-49;  
Matches 120; Conservative 7; Mismatches 5; Indels 0; Gaps 0;  
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Db 61 WYQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 120  
QY 121 YTFGGTKVEIK 132  
Db 121 YTFGGTKVEIK 132

## RESULT 4

US-09-799-514-8  
; Sequence 8, Application US/09799514  
; Patent No. US20020065220A1  
; GENERAL INFORMATION:  
; APPLICANT: Young et al.  
; TITLE OF INVENTION: Immunoglobulin Superfamily Polynucleotides, Polypeptides, and A  
; FILE REFERENCE: PTO15P1  
; CURRENT APPLICATION NUMBER: US/09/799,514  
; CURRENT FILING DATE: 2001-03-07  
; PRIOR APPLICATION NUMBER: US00/23652  
; PRIOR FILING DATE: 2000-06-29  
; PRIOR APPLICATION NUMBER: 60/152,248  
; PRIOR FILING DATE: 1999-09-03  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 240  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-799-514-8

Query Match 81.6%; Score 555.5; DB 9; Length 240;  
Best Local Similarity 83.1%; Pred. No. 5.2e-42;  
Matches 109; Conservative 9; Mismatches 12; Indels 1; Gaps 1;  
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Db 4 QQQVLSLLWSGAYGVIMTQSPDLSAVSLGERATISCKSSQSLNSRTRENYLA 63  
QY 64 QKQKQPQPKLLIYWASTRESGVDFRSGSGGDTFTLTSSLAQEDVAVYCTQSYNL 122  
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Db 124 FQQTVEIK 133

## RESULT 5

US-10-390-986-16

Sat May 29 12:03:34 2004

GenCore version 5.1.6  
Copyright (C) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 26, 2004, 11:42:44 ; Search time 39.0562 Seconds  
(without alignments)  
942.685 Million cell updates/sec

Title: US-09-249-011b-8  
Perfect score: 681  
Sequence: 1 MDSQAVILLLLWVGTCG.....YCTQSNLYTFSGTKVEIK 132

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1149313 segs, 278921704 residues  
Total number of hits satisfying chosen parameters: 1149313

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Published Applications AA.\*
- 1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep.\*
  - 2: /cgn2\_6/ptodata/1/pubaa/US06\_PUB.pep.\*
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  - 4: /cgn2\_6/ptodata/1/pubaa/US06\_PUB.pep.\*
  - 5: /cgn2\_6/ptodata/1/pubaa/US06\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/1/pubaa/US08\_PUB.pep.\*
  - 7: /cgn2\_6/ptodata/1/pubaa/US08\_NEW\_PUB.pep.\*
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  - 14: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.\*
  - 15: /cgn2\_6/ptodata/1/pubaa/US10\_PUBCOMB.pep.\*
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  - 17: /cgn2\_6/ptodata/1/pubaa/US60\_NEW\_PUB.pep.\*
  - 18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	681	100.0	132	9	US-09-249-011a-8
2	677	99.4	239	9	US-09-249-011a-22
3	629	92.4	132	9	US-09-249-011a-4
4	555.5	81.6	240	9	US-09-799-514-8
5	555	81.5	141	14	US-10-390-986-16
6	554.5	81.4	264	15	US-10-264-049-4274
7	553.5	81.3	135	14	US-10-171-452A-1
8	553.5	81.3	135	15	US-10-353-708-1
9	547.5	80.4	240	14	US-10-353-006-36
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13	519.5	76.3	154	9	US-09-925-299-1226
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15	519.5	76.3	154	10	US-09-925-299-1226

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17	515	75.6	272	14	US-10-053-530-14
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24	504.5	74.1	113	14	US-10-159-006-6
25	502.5	73.8	113	9	US-09-956-206A-80
26	502.5	73.8	113	9	US-09-956-206A-80
27	502.5	73.8	122	14	US-10-010-729-51
28	502.5	73.8	155	14	US-10-345-618-11
29	502.5	73.8	267	14	US-10-270-071-36
30	502.5	73.8	268	14	US-10-270-071-36
31	502.5	73.8	268	14	US-10-328-190-4
32	502.5	73.8	268	14	US-10-328-190-4
33	502.5	73.8	268	14	US-10-345-618-6
34	500.5	73.5	113	14	US-10-121-464-2
35	500.5	73.5	113	14	US-10-159-006-2
36	500.5	73.5	113	14	US-10-159-006-32
37	500.5	73.5	432	12	US-10-389-223A-10
38	500.5	73.5	480	12	US-10-389-223A-4
39	500.5	73.5	601	12	US-10-389-438-3
40	500.5	73.5	614	12	US-10-389-223A-2
41	500.5	73.5	658	12	US-10-389-438-1
42	498.5	73.2	114	9	US-09-274-163B-2
43	498.5	73.2	114	9	US-09-274-163B-2
44	498.5	73.2	114	9	US-10-245-438-66
45	498	73.1	113	14	US-10-270-071-8

ALIGNMENTS

RESULT 1  
US-09-249-011a-8  
; Sequence 8, Application US/09249011A  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO, MAN SUNG  
; APPLICANT: VASQUEZ, ANTONIILIANO  
; APPLICANT: CENIKER, ABIE CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GEERTRUIJA M.  
; TITLE OF INVENTION: HUMAN MONOCLONAL REACTIVE WITH B7-2 AND METHODS  
; OTHER INFORMATION: HUMAN MONOCLONAL REACTIVE WITH B7-2 AND METHODS  
; CURRENT REFERENCE: 08702.0041-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 132  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE: Description of Artificial Sequence: Humanized  
; OTHER INFORMATION: Description of Artificial Sequence: Humanized  
; OTHER INFORMATION: marine anti-human B7-2 light chain  
US-09-249-011a-8

Query Match 100.0%; Score 681; DB 9; Length 132;  
Best Local Similarity 100.0%; Pred. No. 1.5e-53;  
Matches 132; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MDSQAVILLLLWVGTCGIVITFSGTKVEIKSGLSINRENYLA 60  
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Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 ATGGATTTCAGAGCCAGGCTTCTTATATGCTGCTGCTAGGCTATCTGGCACTCTGGG 60  
Qy 61 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 120  
Db 61 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 120  
Qy 121 ATTACTGCAATCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180  
Db 121 ATTACTGCAATCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180  
Qy 181 TGTATCCAGCAAGAACCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240  
Db 181 TGTATCCAGCAAGAACCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240  
Qy 241 GAATCTGGGCTCCCTGATCGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
Db 241 GAATCTGGGCTCCCTGATCGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
Qy 301 ATCAGCTGCTGACAGCTGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
Db 301 ATCAGCTGCTGACAGCTGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
Qy 361 TACAGCTTGGACAGGGGACCGAGGCTGGAATATAA 396  
Db 361 TACAGCTTGGACAGGGGACCGAGGCTGGAATATAA 396

## RESULT 2

US-09-249-011a-21  
; Sequence 21; Application US/09249011a  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO. MAN SING  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARENCO, BEATRIZ  
; APPLICANT: CELMIER, ABBIE CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: VELDMAN, GEERTUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011a  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 1960  
; NAME: KNIGHT, ANDREA  
; TYPE: DNA  
; ORGANISM: Mus sp.  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (12)..(408)  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (768)..(1087)  
US-09-249-011a-21

Query Match 99.5%; Score 392.9; DB 9; Length 1960;  
Best Local Similarity 99.5%; Pred. No. 5e-12;  
Matches 394; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 ATGGATTTCAGAGCCAGGCTTCTTATATGCTGCTGCTAGGCTATCTGGCACTCTGGG 60  
Db 12 ATGGATTTCAGAGCCAGGCTTCTTATATGCTGCTGCTAGGCTATCTGGCACTCTGGG 71

Qy 61 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 120  
Db 72 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 131  
Qy 121 ATTACTGCAATCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180  
Db 132 ATTACTGCAATCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 191  
Qy 181 TGTATCCAGCAAGAACCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240  
Db 192 TGTATCCAGCAAGAACCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 251  
Qy 241 GAATCTGGGCTCCCTGATCGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
Db 252 GAATCTGGGCTCCCTGATCGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 311  
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Db 312 ATCAGCTGCTGACAGCTGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 371  
Qy 361 TACAGCTTGGACAGGGGACCGAGGCTGGAATATAA 396  
Db 372 TACAGCTTGGACAGGGGACCGAGGCTGGAATATAA 407

## RESULT 3

US-09-249-011a-3  
; Sequence 3; Application US/09249011a  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO. MAN SING  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARENCO, BEATRIZ  
; APPLICANT: CELMIER, ABBIE CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: VELDMAN, GEERTUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000/249,011a  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 3  
; TYPE: DNA  
; ORGANISM: Murine sp.  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(396)  
; OTHER INFORMATION: Anti-B7-2 light chain  
US-09-249-011a-3

Query Match 91.1%; Score 360.8; DB 9; Length 396;  
Best Local Similarity 94.4%; Pred. No. 5e-118;  
Matches 374; Conservative 0; Mismatches 22; Indels 0; Gaps 0;  
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Db 1 ATGGATTTCAGAGCCAGGCTTCTTATATGCTGCTGCTAGGCTATCTGGCACTCTGGG 60  
Qy 61 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 120  
Db 61 GACATGCTGACACAGTCTTCCAGATTCCTGGCTGCTAGGCTATCTGGCACTCTGGG 120  
Qy 121 ATTACTGCAATCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2004, 12:15:07 ; Search time 315.416 Seconds  
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5711.061 Million cell updates/sec

Title: US-09-249-011b-7  
Perfect score: 396  
Sequence: 1 atggattacagccagctg.....ggaccaggtggaataaaa 396

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2960401 seqs, 2274450654 residues

Total number of hits satisfying chosen parameters: 5320802

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Published Applications NA.\*  
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18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	396	100.0	396	9 US-09-249-011A-7	Sequence 7, Appl
2	392.8	99.2	1960	9 US-09-249-011A-21	Sequence 21, Appl
3	360.8	91.1	396	9 US-09-249-011A-3	Sequence 3, Appl
4	279	70.5	427	15 US-10-159-006-23	Sequence 22, Appl
5	279	70.5	6068	15 US-10-159-006-27	Sequence 27, Appl
6	278.6	70.4	748	15 US-10-408-930-3	Sequence 3, Appl
7	268.2	67.7	1133	15 US-10-328-130-13	Sequence 12, Appl
8	267.2	67.3	339	15 US-10-270-071-60	Sequence 66, Appl
9	267.2	67.3	804	15 US-10-270-071-21	Sequence 21, Appl
10	267.2	67.5	804	15 US-10-270-071-25	Sequence 25, Appl
11	267.2	67.5	807	15 US-10-270-071-9	Sequence 9, Appl
12	267.2	67.5	807	15 US-10-270-071-11	Sequence 11, Appl
13	267.2	67.5	807	15 US-10-270-071-11	Sequence 11, Appl
14	265.6	67.1	339	15 US-10-270-071-58	Sequence 58, Appl

15	265.6	67.1	339	15	US-10-270-071-62	Sequence 62, Appl
16	265.6	67.1	804	15	US-10-270-071-29	Sequence 29, Appl
17	265.6	67.1	804	15	US-10-270-071-35	Sequence 35, Appl
18	265.6	67.1	807	15	US-10-270-071-13	Sequence 13, Appl
19	265.6	67.1	807	15	US-10-270-071-15	Sequence 15, Appl
20	265.6	67.1	807	15	US-10-270-071-31	Sequence 31, Appl
21	265.6	67.1	807	15	US-10-328-190-1	Sequence 1, Appl
22	265.6	67.1	807	15	US-10-328-190-3	Sequence 3, Appl
23	265.2	64.4	423	12	US-10-350-285-15	Sequence 10, Appl
24	265.2	64.4	423	12	US-10-350-285-10	Sequence 10, Appl
25	265.2	64.4	824	15	US-10-023-530-10	Sequence 10, Appl
26	265	64.4	792	16	US-10-284-049-2099	Sequence 2099, Appl
27	265	64.4	1033	9	US-09-799-514-2	Sequence 2, Appl
28	263.6	64.0	463	9	US-09-925-399-453	Sequence 453, Appl
29	263.6	64.0	463	10	US-09-925-299-453	Sequence 453, Appl
30	262	63.6	788	15	US-10-158-646-58	Sequence 58, Appl
31	261.8	63.6	414	11	US-09-791-561-57	Sequence 57, Appl
32	249.2	62.9	316	15	US-10-295-757-10	Sequence 10, Appl
33	248.6	62.8	8068	15	US-10-159-006-35	Sequence 35, Appl
34	246.4	62.2	390	14	US-10-146-305-3	Sequence 5, Appl
35	243.8	62.0	636	15	US-10-052-052-17	Sequence 17, Appl
36	243.8	62.0	636	15	US-10-052-052-17	Sequence 17, Appl
37	244.8	61.8	774	13	US-10-239-656-70	Sequence 70, Appl
38	244.8	61.8	1515	13	US-10-239-656-78	Sequence 78, Appl
39	243	61.4	339	16	US-09-995-529-1	Sequence 1, Appl
40	243	61.4	339	12	US-09-995-529-1	Sequence 1, Appl
41	241.6	61.0	774	13	US-10-239-656-58	Sequence 58, Appl
42	241.6	61.0	777	13	US-10-239-656-52	Sequence 52, Appl
43	240.6	60.8	424	15	US-10-255-478-77	Sequence 77, Appl
44	240.6	60.8	1820	16	US-10-104-047-1232	Sequence 1232, Appl
45	240.6	60.8	9233	15	US-10-295-823-2	Sequence 2, Appl

## ALIGNMENTS

RESULT 1  
US-09-249-011A-7  
; Sequence 7, Application US/09249011A  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO, MAN SUNG  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARRERO, BEATRIZ  
; APPLICANT: CHEN, JAMES CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GEERTRUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: US702,0081-00000  
; CURRENT PUBLICATION NUMBER: US/09/249, 011A  
; CURRENT PUBLICATION DATE: 2003-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 396  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Humanized  
; OTHER INFORMATION: murine anti-human B7-2 light chain  
; NAME: B7-2  
; LOCATION: (1) ... (396)  
US-09-249-011A-7  
Query Match 100.0%; Score 396; DB 9; Length 396;  
Best Local Similarity 100.0%; Pred. No. 1.3e-130;

US-08-579-378A-12

Query Match 79.7%; Score 573.5; DB 3; Length 140;  
Best Local Similarity 78.6%; Pred. No. 5.9e-50;  
Matches 110; Conservative 8; Mismatches 17; Indels 5; Gaps 1;

QY 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60  
DB 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60

QY 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCRAAW 120  
DB 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCAREY 120

QY 121 -----YMDYWGQGLTVSS 135  
DB 121 GNYVRYFDVWGQGLTVSS 140

RESULT 2  
PCT-US93-11612-12

Query Match 79.7%; Score 573.5; DB 5; Length 140;  
Best Local Similarity 78.6%; Pred. No. 5.9e-50;  
Matches 110; Conservative 8; Mismatches 17; Indels 5; Gaps 1;

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DB 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60

QY 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCRAAW 120  
DB 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCAREY 120

QY 121 -----YMDYWGQGLTVSS 135  
DB 121 GNYVRYFDVWGQGLTVSS 140

RESULT 2  
PCT-US93-11612-12

Query Match 79.7%; Score 573.5; DB 5; Length 140;  
Best Local Similarity 78.6%; Pred. No. 5.9e-50;  
Matches 110; Conservative 8; Mismatches 17; Indels 5; Gaps 1;

QY 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60  
DB 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60

QY 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCRAAW 120  
DB 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCAREY 120

QY 121 -----YMDYWGQGLTVSS 135  
DB 121 GNYVRYFDVWGQGLTVSS 140

QY 121 -----YMDYWGQGLTVSS 135  
DB 121 GNYVRYFDVWGQGLTVSS 140

RESULT 3  
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Query Match 75.7%; Score 545; DB 1; Length 135;  
Best Local Similarity 77.8%; Pred. No. 3.9e-47;  
Matches 105; Conservative 7; Mismatches 23; Indels 6; Gaps 0;

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DB 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60

QY 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCRAAW 120  
DB 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCAREY 120

QY 121 YMDYWGQGLTVSS 135  
DB 121 VFDYWGQGLTVSS 135

US-07-634-278-19

Query Match 75.7%; Score 545; DB 1; Length 135;  
Best Local Similarity 77.8%; Pred. No. 3.9e-47;  
Matches 105; Conservative 7; Mismatches 23; Indels 6; Gaps 0;

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DB 1 MGNWCIFFLVTTATGCHSVQVQVQSGAEVKKFGSSVVKSCASGHTFTDVAIQWVRQAP 60

QY 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCRAAW 120  
DB 61 GQGLEWIGVINIYDNTNOKFKGKATMTVDKSTSTAYMELSLRSEDTAVVYCAREY 120

QY 121 YMDYWGQGLTVSS 135  
DB 121 VFDYWGQGLTVSS 135

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 26, 2004, 11:42:43 ; Search time 16.1798 Seconds  
(without alignments)  
430.754 Million cell updates/sec

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Perfect score: 720  
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Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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4	545	75.7	135	1	US-08-477-728-19
5	545	75.7	135	1	US-08-474-040-19
6	545	75.7	135	1	US-08-487-200-19
7	545	75.7	135	2	US-08-303-569B-31
8	545	75.7	135	3	US-08-484-537-19
9	531.5	73.8	163	5	US-08-484-537-19
10	530.5	73.7	140	3	US-08-436-717-102
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12	529.5	73.6	140	5	US-08-436-717-102
13	529.5	73.6	140	5	US-08-436-717-102
14	529.5	73.5	138	3	US-08-513-968-11
15	529	73.5	138	2	US-08-656-586-8
16	527	73.2	135	1	US-08-137-117D-102
17	527	73.2	135	2	US-08-436-717-102
18	527	73.2	139	4	US-09-355-925-7
19	526	73.1	133	3	US-08-718-323A-8
20	525	73.1	133	4	US-09-587-526-8
21	525	72.9	139	1	US-08-253-877C-19
22	525	72.9	139	2	US-08-452-164A-19
23	525	72.9	139	3	US-08-603-024-18
24	525	72.9	139	4	US-08-450-809-14
25	521	72.9	135	1	US-08-137-117D-100
26	521	72.9	135	2	US-08-436-717-100
27	521	72.4	135	2	US-08-436-717-100

28	521	72.4	137	3	US-08-513-968-38
29	518.5	72.0	140	3	US-08-836-561-74
30	518.5	72.0	140	3	US-09-434-122-74
31	515.5	71.6	140	3	US-08-836-561-78
32	515.5	71.6	140	3	US-08-836-561-78
33	515	71.5	135	1	US-08-137-117D-112
34	515	71.5	135	2	US-08-436-717-112
35	511.5	71.0	136	4	US-08-525-539A-63
36	508.5	70.6	143	1	US-08-236-520-7
37	508.5	70.6	143	5	US-08-525-539A-63
38	507.5	70.5	140	3	US-08-836-561-83
39	507.5	70.5	140	4	US-09-434-122-83
40	506	70.3	472	4	US-09-304-593-43
41	504.5	70.1	136	4	US-09-430-520A-8
42	504.5	70.1	136	4	US-09-430-520A-8
43	501.5	69.7	133	1	US-08-483-389-53
44	501.5	69.7	133	2	US-08-483-389-53
45	501.5	69.7	133	2	US-08-487-113D-53

## ALIGNMENTS

RESULT 1  
US-08-579-378A-12  
Sequence 12, Application US/08579378A  
Sequence 12, Application US/08579378A  
GENERAL INFORMATION:  
APPLICANT: Co. Man Sung  
TITLE OF INVENTION: Humanized Antibodies Reactive with  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESS: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/579,378A  
FILING DATE: 27-DEC-1995  
PRIORITY DATE: 27-DEC-1995  
PRIORITY APPLICATION: 024  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/460,074  
FILING DATE: 30-NOV-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/983,946  
FILING DATE: 01-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 9612895.8  
FILING DATE: 17-AUG-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 95114696.8  
FILING DATE: 19-SEP-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Liebschuetz, O  
REGISTRATION NUMBER: 37,505  
REFERENCE/DOCKET NUMBER: 11823-002220  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 140 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

Db 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Qy 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Db 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Qy 121 YMDYWGQGLTVTVSS 135  
Db 121 YMDYWGQGLTVTVSS 135

## RESULT 2

US-09-249-011A-24  
; Sequence 24, Application US/09249011A  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO, MAN SING  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARRERO, BEATRIZ  
; APPLICANT: CELNIKER, ABBIE CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GERTHUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 24  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-249-011A-24

Query Match 100.0%; Score 720; DB 9; Length 461;  
Best Local Similarity 100.0%; Pred. No. 7.6e-60;  
Matches 135; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Db 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Qy 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Db 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Qy 121 YMDYWGQGLTVTVSS 135  
Db 121 YMDYWGQGLTVTVSS 135

## RESULT 3

US-09-249-011A-2  
; Sequence 2, Application US/09249011A  
; Patent No. US20020176855A1  
; GENERAL INFORMATION:  
; APPLICANT: CO, MAN SING  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARRERO, BEATRIZ  
; APPLICANT: CELNIKER, ABBIE CHERYL  
; APPLICANT: COLLINS, MARY  
; APPLICANT: GOLDMAN, SAMUEL  
; APPLICANT: GRAY, GARY S.  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GERTHUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 24  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Murine sp.  
US-09-249-011A-2

; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249,011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 135  
; TYPE: PRT  
; ORGANISM: Murine sp.  
; FEATURE:  
; OTHER INFORMATION: Anti-B7-2 heavy chain  
US-09-249-011A-2

Query Match 87.1%; Score 627; DB 9; Length 135;  
Best Local Similarity 84.4%; Pred. No. 1.2e-51;  
Matches 114; Conservative 10; Mismatches 11; Indels 0; Gaps 0;  
Qy 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Db 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Qy 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Db 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Qy 121 YMDYWGQGLTVTVSS 135  
Db 121 YMDYWGQGLTVTVSS 135

## RESULT 4

US-10-216-484-147  
; Sequence 147, Application US/10216484  
; Publication No. US20030103976A1  
; GENERAL INFORMATION:  
; APPLICANT: Sankyo Co. No. US20030103976A1ufusa  
; APPLICANT: Haruyama, Hideyuki  
; APPLICANT: Nakahara, Kaori  
; APPLICANT: Tamaki, Ikuko  
; APPLICANT: Takahashi, Tohru  
; TITLE OF INVENTION: Anti-Fas Antibodies  
; FILE REFERENCE: 980126CIP/HG  
; CURRENT APPLICATION NUMBER: US/10/216,484  
; CURRENT FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: US/09/499,662  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: US/09/053,583  
; PRIOR FILING DATE: 1998-04-01  
; NUMBER OF SEQ ID NOS: 165  
; SEQ ID NO 147  
; LENGTH: 470  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence; Designed heavy  
; OTHER INFORMATION: Chain of humanized anti-Fas antibody  
US-10-216-484-147

Query Match 81.3%; Score 585.5; DB 14; Length 470;  
Best Local Similarity 81.4%; Pred. No. 4e-47;  
Matches 114; Conservative 6; Mismatches 15; Indels 5; Gaps 1;  
Qy 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Db 1 MGNWCIFFLVTTATGVSQVQVQSGAEVKGSGSVKVSCKASGYTFDTYAIQWVRQAP 60  
Qy 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 119  
Db 61 GQGLEWIGVINIYDNTNNKPKGKATMTVDKSTSTAYMELSSLSRSDTAVYICARAAW 120  
Qy 120 ----WMDYWGQGLTVTVSS 135



QY 1 AAGGTTGGAACCTGTATATATCTTTCTTCTGTTACACAGCTACAGGTGTCACCTCCAG 60  
 Db 34 AAGGTTGGAACCTGTATATATCTTTCTTCTGTTACACAGCTACAGGTGTCACCTCCAG 93  
 QY 61 GTCCAGCTGTTGAGCTGCTGGGCTGAGGTGAGAGGCTGGGCTGAGGTGAGGTGTC 120  
 Db 94 GTCCAGCTGTTGAGCTGCTGGGCTGAGGTGAGAGGCTGGGCTGAGGTGAGGTGTC 153  
 QY 121 TCGAAGCTTCGGGCTACATTCATCTGATTTGCTATACAGTGGGTGAGACAGGCTCT 180  
 Db 154 TCGAAGCTTCGGGCTACATTCATCTGATTTGCTATACAGTGGGTGAGAGGCTCT 213  
 QY 181 GGCAGGCTTCGAGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAG 240  
 Db 214 GGCAGGCTTCGAGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAG 273  
 QY 241 CAGAGGTTTAAAGGCGAAGGCGACAACTGCTAGAGTGGGCTGAGAGGCGAGCTTATG 300  
 Db 274 CAGAGGTTTAAAGGCGAAGGCGAAGTGGGCTGAGAGTGGGCTGAGAGGCGAGCTTATG 333  
 QY 301 GAATCTGTTTGAAGTCTGAGGATGAGGCTGATTTATTTACTGTCAGAGGCGGCTTG 360  
 Db 334 GAATCTGTTTGAAGTCTGAGGATGAGGCTGATTTATTTACTGTCAGAGGCGGCTTG 393  
 QY 361 -----TATATGCTACTGCGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 405  
 Db 394 TTACTACTCTCTTTGACTACTGCGGCGCAGGCGACACACTCTCAAGTCTCTCTCT 447

## RESULT 2

US-08-525-539A-62  
 ; Sequence 62, Application US/0852539A  
 ; Patent No. 6309636  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CERNITO, FERNANDO J.R.  
 ; APPLICANT: CERNITO, ROBERTO L.  
 ; APPLICANT: PETERSON, JERRY A.  
 ; TITLE OF INVENTION: RECOMBINANT PEPTIDES DERIVED FROM THE  
 ; TITLE OF INVENTION: M63 ANTI-B446 ANTIBODY, METHODS OF USE THEREOF, AND  
 ; TITLE OF INVENTION: METHODS OF HUMANIZING ANTIBODY PEPTIDES  
 ; NUMBER OF SEQUENCES: 81  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORRISON & FOERSTER  
 ; STREET: 75 Page Mill Road  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94304-1018  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/525,539A  
 ; FILING DATE: 14-SEP-1995  
 ; CLASSIFICATION: 424  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: DYLAN, TYLER  
 ; REGISTRATION NUMBER: 37,612  
 ; REFERENCE/DOCKET NUMBER: 27633-20001.21  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 813-5600  
 ; TELEFAX: (415) 494-0792  
 ; INFORMATION FOR SEQUENCE ID NO. 62:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 424 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-525-539A-62

Query Match 62.8%; Score 254.4; DB 4; Length 424;  
 Best Local Similarity 78.2%; Pred. No. 7.4e-74;  
 Matches 319; Conservative 0; Mismatches 86; Indels 3; Gaps 1;  
 QY 1 AAGGTTGGAACCTGTATATCTTTCTTCTGTTACACAGCTACAGGTGTCACCTCCAG 60  
 Db 11 AAGGTTGGAACCTGTATATCTTTCTTCTGTTACACAGCTACAGGTGTCACCTCCAG 70  
 QY 61 GTCCAGCTGTTGAGCTGCTGGGCTGAGGTGAGAGGCTGGGCTGAGGTGAGGTGTC 120  
 Db 71 GTCCAGCTGTTGAGCTGCTGGGCTGAGGTGAGAGGCTGGGCTGAGGTGAGGTGTC 130  
 QY 121 TCGAAGCTTCGGGCTACATTCATCTGATTTGCTATACAGTGGGTGAGACAGGCTCT 180  
 Db 131 TCGAAGCTTCGGGCTACATTCATCTGATTTGCTATACAGTGGGTGAGAGGCTCT 190  
 QY 181 GGCAGGCTTCGAGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAG 240  
 Db 191 GGCAGGCTTCGAGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAGTGGGCTGAG 250  
 QY 241 CAGAGGTTTAAAGGCGAAGGCGAAGTGGGCTGAGAGTGGGCTGAGAGGCGAGCTTATG 300  
 Db 251 CAGAGGTTTAAAGGCGAAGGCGAAGTGGGCTGAGAGTGGGCTGAGAGGCGAGCTTATG 310  
 QY 301 GAATCTGTTTGAAGTCTGAGGATGAGGCTGATTTATTTACTGTCAGAGGCGGCTTG 360  
 Db 311 GAATCTGTTTGAAGTCTGAGGATGAGGCTGATTTATTTACTGTCAGAGGCGGCTTG 370  
 QY 361 TA-----TATGCTACTGCGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 405  
 Db 371 TAATCTATGACTTATGCGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTTCT 418  
 RESULT 3  
 US-08-579-378A-11  
 ; Sequence 11, Application US/08579378A  
 ; Patent No. 6210671  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CO, Man Sung  
 ; TITLE OF INVENTION: Humanized Antibodies Reactive with  
 ; TITLE OF INVENTION: Humanized Antibodies Reactive with  
 ; NUMBER OF SEQUENCES: 20  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Townsend and Crew  
 ; STREET: One Market Plaza, Stewart Tower, Suite 2000  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94105  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/579,378A  
 ; FILING DATE: 27-DEC-1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/160,074  
 ; FILING DATE: 30-NOV-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/983,946  
 ; FILING DATE: 01-DEC-1992  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: EP 95112895.8  
 ; FILING DATE: 17-AUG-1995  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: EP 95114696.8  
 ; FILING DATE: 19-SEP-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Liebeschultz, Joe O.

Sat May 29 12:03:31 2004

us-09-249-011b-5.rni

Page 1

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OK nucleic - nucleic search, using sw model

Run on: May 27, 2004, 20:40:34 ; Search time 50.5618 seconds  
(44000 alignments)  
4445157 Million cell updates/sec

Title: US-09-249-011B-5  
Perfect score: 405  
Sequence: 1 atgggttggaactgtatcat.....ccctgtccacgttctccca 405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : 1 Issued Patents.NA.\*  
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3: /cgm2\_6/prodata/2/ina/ea\_COMB.seq.\*  
4: /cgm2\_6/prodata/2/ina/ea\_COMB.seq.\*  
5: /cgm2\_6/prodata/2/ina/PCUS\_COMB.seq.\*  
6: /cgm2\_6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	277.2	68.4	524	5	PCT-US91-02942-4
2	254.4	62.8	424	4	US-08-525-539A-62
3	253.6	62.6	451	3	US-08-579-378A-11
4	253.6	62.1	423	4	PCT-US93-11612-11
5	251.6	62.1	423	4	US-09-438-954-43
6	248.2	61.3	433	1	US-08-137-117D-11
7	248.2	61.3	423	4	US-08-436-617-11
8	245.2	60.5	423	4	US-07-634-728-68
9	245	60.5	405	1	US-08-477-728-68
10	245	60.5	405	1	US-08-474-040-68
11	245	60.5	405	1	US-08-487-200-68
12	245	60.5	405	1	US-08-484-537-68
13	245	60.5	405	3	US-08-484-537-68
14	240.8	59.5	421	3	US-08-836-561-62
15	240.8	59.5	421	4	US-09-434-122-62
16	239	59.0	418	4	US-09-355-945-3
17	238.6	58.9	433	1	US-07-634-728-18
18	238.6	58.9	433	1	US-08-477-728-18
19	238.6	58.9	433	1	US-08-487-200-18
20	238.6	58.9	433	3	US-08-484-537-18
21	238.6	58.9	433	3	US-08-484-537-18
22	237.6	58.7	422	1	US-08-482-882-77
23	237.6	58.7	422	1	US-08-483-113D-77
24	237.6	58.7	422	2	US-08-483-113D-77
25	237.6	58.7	422	2	US-08-473-503-77
26	237.6	58.7	422	2	US-08-483-932-77
27	237.6	58.7	422	2	US-08-720-420A-77

Sequence 77, Appl  
Sequence 77, Appl  
Sequence 77, Appl  
Sequence 98, Appl  
Sequence 98, Appl  
Sequence 73, Appl  
Sequence 73, Appl  
Sequence 77, Appl  
Sequence 11, Appl  
Sequence 11, Appl  
Sequence 45, Appl  
Sequence 6, Appl  
Sequence 6, Appl  
Sequence 9, Appl  
Sequence 26, Appl  
Sequence 26, Appl  
Sequence 39, Appl  
Sequence 44, Appl  
Sequence 99, Appl

ALIGNMENTS

RESULT 1  
PCT-US91-02942-4  
Sequence 4, Application PC/TUS9102942  
GENERAL INFORMATION:  
APPLICANT: ROTHLEIN, ROBERT  
APPLICANT: ADLAI, JOHN R  
TITLE OF INVENTION: HUMANIZED CDR-GRAFTED ICAM-1 ANTIBODY  
NUMBER OF SEQUENCES: 102  
CORRESPONDENCE ADDRESS:  
ADDRESS: Sterne, Kessler, Goldstein & Fox  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
PCT NUMBER: PCT/US91/02942  
FILING DATE: 19910425  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: GB 9009549.8  
FILING DATE: 27-APR-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: FOX, SAM L  
REGISTRATION NUMBER: 30,353  
REFERENCE/DOCKET NUMBER: 1011.0586600  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 466-0800  
TELEFAX: (202) 466-0800  
INFORMATION FOR SEQ ID NO. 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 524 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: COS  
LOCATION: 34..522  
PCT-US91-02942-4

Query Match 68.4%; Score 277.2; DB 5; Length 524;  
Best Local Similarity 81.4%; Fred. No. 2.7e-81;  
Matches 337; Conservative 0; Mismatches 68; Indels 9; Gaps 1;



Matches 405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGTTGGAACTGATATCATCTCTCTCTGTTACACAGCTACAGCTGCTGCACTCCGAG 60

Db 1 ATGGTTGGAACTGATATCATCTCTCTCTGTTACACAGCTACAGCTGCTGCACTCCGAG 60

QY 61 GTCCAGCTGGTGCAGTCTCTGGGGCTGAGTGAAGAGCTTGGAGCTCAGTGAAGTGTCC 120

Db 61 GTCCAGCTGGTGCAGTCTCTGGGGCTGAGTGAAGAGCTTGGAGCTCAGTGAAGTGTCC 120

QY 121 TCGAAGCTTCGGCTACATCATCTGATATGCTATACATGCTGAGTGAAGAGCTTCT 180

Db 121 TCGAAGCTTCGGCTACATCATCTGATATGCTATACATGCTGAGTGAAGAGCTTCT 180

QY 181 GGACAGGGCTCGAGTGAATGAGTATTAATTAATTAATTAATTAATTAATTAATTAAT 240

Db 181 GGACAGGGCTCGAGTGAATGAGTATTAATTAATTAATTAATTAATTAATTAATTAAT 240

QY 241 CAGAAGTTAAGGGCAAGGCCCAATGCTGTAGCAAGTGCAGAGCTACAGCTTATG 300

Db 241 CAGAAGTTAAGGGCAAGGCCCAATGCTGTAGCAAGTGCAGAGCTACAGCTTATG 300

QY 301 GAAGTTACTCTCTGAGTCTGAGATAGGCGCTTATTAATTAATTAATTAATTAATTAAT 360

Db 301 GAAGTTACTCTCTGAGTCTGAGATAGGCGCTTATTAATTAATTAATTAATTAATTAAT 360

QY 361 TATATGACTACTGAGGCTCAAGGTACCTCTGACCGTCTCTCA 405

Db 361 TATATGACTACTGAGGCTCAAGGTACCTCTGACCGTCTCTCA 405

RESULT 2

US-09-249-011a-23

Sequence 23; Application US/09249011a

Patent No. US/02017685SAI

GENERAL INFORMATION

APPLICANT: CO. MAN SUNG

APPLICANT: VASQUEZ, MAXIMILIANO

APPLICANT: CARRENO, BEATRIZ

APPLICANT: CELNIKER, ABBIE CHERYL

APPLICANT: COLLINS, MARY

APPLICANT: GOLDMAN, SAMUEL

APPLICANT: GRAY, GARY S.

APPLICANT: KNIGHT, ANDREA

APPLICANT: O'BRIEN, DENISE

APPLICANT: RUP BONITA

APPLICANT: VELDMAN, GEERTUIDA M.

TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS

FILE REFERENCE: 08702.0081-00000

CURRENT APPLICATION NUMBER: US/09/249,011a

NUMBER OF SEQ ID NOS: 24

SOFTWARE: Patent in Ver. 2.1

SEQUENCE LENGTH: 2249

TYPE: DNA

ORGANISM: Muls sp.

FEATURE:

NAME/KEY: CDS

LOCATION: (12)..(417)

FEATURE:

NAME/KEY: CDS

LOCATION: (655)..(948)

FEATURE:

NAME/KEY: CDS

LOCATION: (1341)..(1376)

FEATURE:

NAME/KEY: CDS

LOCATION: (1495)..(1821)

FEATURE:

NAME/KEY: CDS

LOCATION: (1919)..(2238)

US-09-249-011a-23

Query Match 100.0%; Score 405; DB 9; Length 2249;

Best Local Similarity 100.0%; Pred. No. 9.5e-126; Indels 0; Gaps 0;

Matches 405; Conservative 0; Mismatches 0;

QY 1 ATGGTTGGAACTGATATCATCTCTCTCTGTTACACAGCTACAGCTGCTGCACTCCGAG 60

Db 12 ATGGTTGGAACTGATATCATCTCTCTCTGTTACACAGCTACAGCTGCTGCACTCCGAG 71

QY 61 GTCCAGCTGGTGCAGTCTCTGGGGCTGAGTGAAGAGCTTGGAGCTCAGTGAAGTGTCC 120

Db 72 GTCCAGCTGGTGCAGTCTCTGGGGCTGAGTGAAGAGCTTGGAGCTCAGTGAAGTGTCC 131

QY 121 TCGAAGCTTCGGCTACATCATCTGATATGCTATACATGCTGAGTGAAGAGCTTCT 180

Db 132 TCGAAGCTTCGGCTACATCATCTGATATGCTATACATGCTGAGTGAAGAGCTTCT 191

QY 181 GGACAGGGCTCGAGTGAATGAGTATTAATTAATTAATTAATTAATTAATTAATTAAT 240

Db 192 GGACAGGGCTCGAGTGAATGAGTATTAATTAATTAATTAATTAATTAATTAATTAAT 251

QY 241 CAGAAGTTAAGGGCAAGGCCCAATGCTGTAGCAAGTGCAGAGCTACAGCTTATG 300

Db 252 CAGAAGTTAAGGGCAAGGCCCAATGCTGTAGCAAGTGCAGAGCTACAGCTTATG 311

QY 301 GAAGTTACTCTCTGAGTCTGAGATAGGCGCTTATTAATTAATTAATTAATTAATTAAT 360

Db 312 GAAGTTACTCTCTGAGTCTGAGATAGGCGCTTATTAATTAATTAATTAATTAATTAAT 371

QY 361 TATATGACTACTGAGGCTCAAGGTACCTCTGACCGTCTCTCA 405

Db 372 TATATGACTACTGAGGCTCAAGGTACCTCTGACCGTCTCTCA 416

RESULT 3

US-09-249-011a-1

Sequence 1; Application US/09249011a

Patent No. US/0203017685SAI

GENERAL INFORMATION

APPLICANT: CO. MAN SUNG

APPLICANT: VASQUEZ, MAXIMILIANO

APPLICANT: CARRENO, BEATRIZ

APPLICANT: CELNIKER, ABBIE CHERYL

APPLICANT: COLLINS, MARY

APPLICANT: GOLDMAN, SAMUEL

APPLICANT: GRAY, GARY S.

APPLICANT: KNIGHT, ANDREA

APPLICANT: O'BRIEN, DENISE

APPLICANT: RUP BONITA

APPLICANT: VELDMAN, GEERTUIDA M.

TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS

FILE REFERENCE: 08702.0081-00000

CURRENT APPLICATION NUMBER: US/09/249,011a

NUMBER OF SEQ ID NOS: 24

SOFTWARE: Patent in Ver. 2.1

SEQUENCE LENGTH: 405

TYPE: DNA

ORGANISM: Murine sp.

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(405)

OTHER INFORMATION: Anti-B7-2 heavy chain

US-09-249-011a-1

Query Match 82.6%; Score 334.6; DB 9; Length 405;

Best Local Similarity 89.1%; Pred. No. 2.5e-102;

Matches 361; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 1 ATGGTTGGAACTGATATCATCTCTCTCTGTTACACAGCTACAGCTGCTGCACTCCGAG 60

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2004, 12:15:07 ; Search time 322.584 Seconds  
(without alignments)  
5711.081 Million cell updates/sec

Title: US-09-249-011b-5  
Predict score: 405.0  
Sequence: 1 atgggtggaactgtatcat.....ccctgtcacgcgtctctca 405

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2960401 seqs, 2274450654 residues  
Total number of hits satisfying chosen parameters: 5920802

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*  
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9: /cgn2\_6/ptodata/1/pubna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/1/pubna/US09B\_PUBCOMB.seq.\*  
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15: /cgn2\_6/ptodata/1/pubna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/1/pubna/US10\_NEW\_PUB.seq.\*  
17: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/1/pubna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	405	100.0	405	9 US-09-249-011a-5	Sequence 5, Appli
2	405	100.0	2249	9 US-09-249-011a-5	Sequence 23, Appli
3	334.6	82.6	405	9 US-09-249-011a-1	Sequence 1, Appli
4	254.4	62.8	424	9 US-09-956-206a-62	Sequence 62, Appl
5	253.6	62.6	2071	15 US-10-216-484-116	Sequence 116, App
6	253.6	62.6	2071	15 US-10-384-933-116	Sequence 116, App
7	253	62.5	4210	9 US-09-897-006-5	Sequence 5, Appli
8	253	62.5	4210	10 US-09-897-006-5	Sequence 5, Appli
9	253	62.5	7617	13 US-10-307-00-5	Sequence 5, Appli
10	253	62.5	7617	13 US-10-307-00-5	Sequence 5, Appli
11	252	62.2	2073	15 US-10-216-484-142	Sequence 142, App
12	252	62.2	2073	15 US-10-216-484-142	Sequence 142, App
13	252	62.2	2073	15 US-10-384-933-142	Sequence 142, App
14	252	62.2	2073	15 US-10-384-933-142	Sequence 144, App

Sequence 43, Appl  
Sequence 146, App  
Sequence 146, App  
Sequence 74, Appl  
Sequence 74, Appl  
Sequence 88, Appl  
Sequence 88, Appl  
Sequence 156, App  
Sequence 156, App  
Sequence 49, Appl  
Sequence 49, Appl  
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Sequence 59, Appl  
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Sequence 91, App  
Sequence 91, App  
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Sequence 33, Appl  
Sequence 33, Appl  
Sequence 49, Appl  
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Sequence 3, Appl  
Sequence 20, Appl  
Sequence 20, Appl

## ALIGNMENTS

US-09-249-011a-5  
US-09-249-011a-5  
; Sequence 5, Application US/09249011A  
; Patent No. US2002017685A1  
; GENERAL INFORMATION:  
; APPLICANT: CO, MAN SUNG  
; APPLICANT: VASQUEZ, MAXIMILIANO  
; APPLICANT: CARENO, BEATRIZ  
; APPLICANT: CEINIKER, ARIE CHERYL  
; APPLICANT: COLLINS, MARK  
; APPLICANT: COLLINS, MARK  
; APPLICANT: COLLINS, MARK  
; APPLICANT: GRAY, GARY S  
; APPLICANT: KNIGHT, ANDREA  
; APPLICANT: O'HARA, DENISE  
; APPLICANT: RUP, BONITA  
; APPLICANT: VELDMAN, GEERTRUIDA M.  
; TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS  
; FILE OF INVENTION: OF TREATMENT THEREWITH  
; FILE REFERENCE: 08702.0081-00000  
; CURRENT APPLICATION NUMBER: US/09/249, 011A  
; CURRENT FILING DATE: 1999-02-12  
; NUMBER OF SEQ. NOS.: 24  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 405  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Humanized  
; OTHER INFORMATION: murine anti-human B7-2 heavy chain  
; FEATURE:  
; NAME/SEQ: CDS  
; ORIGIN: (U) .. (405)  
US-09-249-011a-5  
Query Match 100.0%; Score 405; DB 9; Length 405;  
Best Local Similarity 100.0%; Pred. No. 3.9e-126;